

**AMENDMENT UNDER 37 C.F.R. § 1.111**  
**U.S. APP. NO. 09/930,487**

**REMARKS**

**Summary of the Office Action**

Claims 1-18 are pending in the application.

Claims 1, 3, 7-9 12, and 15-18 are rejected under 35 U.S.C. § 112, first paragraph, as allegedly failing to comply with the enablement requirement.

Claims 1 and 3-18 are rejected under 35 U.S.C. § 112, second paragraph, as allegedly being indefinite.

Claims 1, 7, 15 and 17 are rejected under 35 U.S.C. § 102(e) as allegedly being anticipated by Taura et al (USP 6,516,039).

Claims 2, 8, 16 and 18 are rejected under 35 U.S.C. § 103 as allegedly being unpatentable over Taura et al in view of Thebault et al (USP 5,822,384) and Nomura (USP 6,731,702).

The above rejections are respectfully traversed.

**Rejection under 35 U.S.C. § 112, first paragraph**

The Examiner rejects claims 1, 3, 7-9 12, and 15-18 under 35 U.S.C. § 112, first paragraph, for the reasons set forth on pages 3-6 of the Office Action. Regarding claims 1, 7, 8, and 15-18, the Examiner does not find support in the specification for features relating to a null symbol being associated with each sample. Applicant submits that claims 1, 7, 8, and 15-18 indicate that the null symbols are associated with frames, rather than symbols.

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Regarding claims 3 and 9, the Examiner does not find disclosure to support the mean square calculator for calculating the mean square of samples stored in the two window buffers. Amended claims 3 and 9 do not recite a mean square calculator.

**Rejection under 35 U.S.C. § 112, second paragraph**

The Examiner rejects claims 1, and 3-18 under 35 U.S.C. § 112, second paragraph, for the reasons set forth on pages 6-9 of the Office Action. Applicant submits that amended claims 1, 4, 5, 6, 7, 10, 11, 13, 15, 17, and 18, as well as the claims that depend therefrom, comply with the requirements of 35 U.S.C. § 112, second paragraph.

**Rejections under 35 U.S.C. §§ 102(e) and 103**

In rejecting claims 1, 7, 15 and 17 under 35 U.S.C. § 102(e) as being anticipated by Taura et al, at pages 10-11 of the Office Action, the Examiner cites portions of this reference as teaching each of the limitations of these claims.

Additionally, in rejecting claims 2, 8, 16 and 18 under 35 U.S.C. § 103 as being unpatentable over Taura et al in view of Thebault et al and Nomura, at pages 11-12 of the Office Action, the Examiner provides reasoning supporting this rejection.

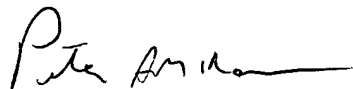
Applicant submits that claims 1, 7, 15 and 17 are not anticipated by Taura et al. One reason for this is that Taura et al does not teach “detecting the starting and end points of the null symbol of each frame by obtaining ratios of sums of squared symbol values”, as recited in these claims.

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In view of the above, reconsideration and allowance of this application are now believed to be in order, and such actions are hereby solicited. If any points remain in issue which the Examiner feels may be best resolved through a personal or telephone interview, the Examiner is kindly requested to contact the undersigned at the telephone number listed below.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,



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WASHINGTON OFFICE

**23373**

CUSTOMER NUMBER

Date: December 13, 2004

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**AMENDMENTS TO THE DRAWINGS:**

The description of element 254 of Fig. 4 is changed from “MEAN SQUARE VALUE CALCULATOR” to --SUM OF SQUARES RATIO CALCULATOR--.

Attachment: Annotated Sheet